What is claimed is:

1. A detection device comprising:

storage means for storing a transmitted signal in a demodulator of a direct sequence CDMA signal;

code generation means for sequentially generating codes for a candidate for a despreading code;

correlation value obtaining means for reading the signal stored in the storage unit to be despread by the code; and

detection means for detecting the code used for the despreading process as a spreading code on a transmission side, in a case where the correlation value obtained by the correlation value obtaining means is a maximum or greater than a reference value.

2. The detection device according to claim 1, wherein the correlation value obtaining means performs a despreading process by shifting a phase of the code, and the detection means detects a phase of the code in a case where the correlation value is a maximum or greater than a reference value, as a despreading timing.

3. The detection device according to claim 1 or

claim 2 wherein the correlation value obtaining means is a matched filter.

4. The detection device according to claim 1 or claim 2 wherein the correlation value obtaining means is a sliding correlator.

5. The detection device according to claim 1 wherein the correlation value obtaining means comprises a matched filter to be used in a case where the length of code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

6. The detection device according to claim 2 wherein the correlation value obtaining means comprises a matched filter to be used in a case where the length of a code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

7. The detection device according to claim 1 wherein the detection device comprises an adder, a memory means for storing an output from the adder, and a feedback path for feeding back an output from the

memory means to the adder, and the correlation values obtained by the correlation value obtaining means are totaled for a plurality of symbols.

8. The detection device according to claim 7 wherein one memory is used as the storage means and the memory means.

9. A detection method of detecting a spreading code and a despreading timing in a demodulator of a direct sequence CDMA signal comprising the steps of:

(a) storing a transmitted signal;

(b) sequentially generating a code to be a candidate for a despreading code;

(c) reading the signal stored in the step (a) to be despread by the code; and

(d) detecting the code used for the despreading process as a spreading code on a transmission side, in a case where the correlation value obtained in the step (c) is a maximum or greater than a reference value.

10. The detection method according to claim 9 wherein step (c) comprises a step of performing a despreading process by shifting a phase of the code, and step (d)

comprises a step of detecting a phase of the code as a despreading code in a case where the correlation value is a maximum or greater than a reference value.

11. The detection method according to claim 8 wherein step (d) comprises a step of totaling the correlation values obtained in step (c) for a plurality of symbols.

12. A detection device comprising:

storage means for storing a transmitted signal in spread spectrum communication;

code generation means for sequentially generating a code to be a candidate for a despreading code;

correlation value obtaining means for reading the signal stored in the storage means to be despread by the code by shifting a phase of the code; and

detection means for detecting a phase of the code used for the despreading process as a despreading code, in a case where the correlation value obtained by the correlation value obtaining means is a maximum or greater than a reference value.